

AMENDMENTS TO THE CLAIMS

Please cancel claims 28, 47, and 51 without prejudice to pursue these claims in a related application, and amend claim 29, as follows. A complete listing of the claims is provided below.

1-28. (Canceled)

29. (Currently Amended) The system of claim 28 53 in which the raised one of the two or more reflective surface elements comprises a hemispherical shape.

30. (Previously Presented) A marker system for use in a patient treatment system comprising:
a surface area;
a first reference location on the surface area;
a second reference location on the surface area; and
the first reference location and the second reference location positioned on the surface area such that both reference locations are simultaneously detectable by an optical imaging apparatus.

31. (Previously Presented) The system of claim 30 in which the first and second reference locations comprise retro-reflective material.

32. (Previously Presented) The system of claim 48, wherein said structure is sized to fit a patient body location.

33. (Canceled)

34. (Previously Presented) The system of claim 53 in which said two or more reflective elements are retro-reflective elements.

35. (Previously Presented) The system of claim 53 in which said marker block is shaped to fit a specific body location.

36-37. (Canceled)

38. (Previously Presented) The system of claim 54 in which absolute coordinate of said one or more optical imaging apparatus is known.

39. (Previously Presented) The system of claim 54 in which viewing orientation of said one or more optical imaging apparatus is known.

40. (Previously Presented) The system of claim 54 in which relative absolute coordinate of said one or more optical imaging apparatus is known.

41. (Previously Presented) The system of claim 54 in which said one or more optical imaging apparatus comprises CCD cameras.

42. (Previously Presented) The system of claim 53 further comprising a computing device to receive output information from said one or more optical imaging apparatus, the computing device having a processor configured to determine the position and orientation of said marker block.

43. (Previously Presented) The system of claim 53 further comprising a video display device to display a video image of a patient.

44. (Previously Presented) The system of claim 43 in which said video image comprises real-time images of said marker block.

45. (Previously Presented) The system of claim 43 in which said video image comprises real-time images of said patient.

46. (Canceled)

47. (Canceled)

48. (Previously Presented) The system of claim 30, wherein at least a portion of said surface area comprises Styrofoam.

49. (Previously Presented) The system of claim 30, wherein said surface area is a portion of a structure, said structure configured to couple to a fixture that attaches to a patient body.

50. (Canceled)

51. (Canceled)

52. (Previously Presented) The system of claim 30, further comprising said optical imaging apparatus.

53. (Previously Presented) A marker system, comprising:

a marker block having a surface;
two or more reflective elements located on said surface, said two or more reflective elements having known relative positioning; and
said marker block positioned such that at least two of said two or more reflective elements are viewable by one or more optical imaging apparatus.

54. (Previously Presented) The system of claim 53, further comprising said one or more optical imaging apparatus.